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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,422	03/12/2004	Trent C. Reusser	H0005612-1633	7124
128	7590	05/09/2006		
HONEYWELL INTERNATIONAL INC. 101 COLUMBIA ROAD P O BOX 2245 MORRISTOWN, NJ 07962-2245				EXAMINER SWARTHOUT, BRENT
				ART UNIT 2612 PAPER NUMBER

DATE MAILED: 05/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/799,422	REUSSER ET AL.	
	Examiner	Art Unit	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 15 February 2006.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-22 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-22 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

<p>1)<input type="checkbox"/> Notice of References Cited (PTO-892)</p> <p>2)<input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</p> <p>3)<input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>3-3-06, 3-12-04</u></p>	<p>4)<input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.</p> <p>5)<input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</p> <p>6)<input type="checkbox"/> Other: _____.</p>
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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

a. Claims 1-7, 10, 11, 13-14, 17-18 and 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Derman in view of Langner et al.

Derman discloses a method for displaying attitude, heading and navigation data on a single display comprising showing attitude direction indicator 15/16, and a compass rose 14 surrounding the display, except for display of terrain data.

Langner teaches desirability of displaying attitude direction indicator 176/177 in conjunction with compass 190 and terrain data (col.6, line 43).

It would have been obvious to display terrain data as suggested by Langner in conjunction with an ADI as disclosed by Derman with associated compass rose, in order to allow a pilot to view multiple desired data at once without having to switch screens, thus saving space and allowing display of more comprehensive data for providing safer flight conditions.

With regard to claims 2-3, Langner teaches use of altitude 180 and airspeed 160 displays.

With regard to claim 4, attitude indicators typically move with respect to a central position in order to indicate movement, when it is desired to have a horizon line remain static.

Regarding claim 5, Langner teaches display of CDI (Fig. 1a).

2. Claims 8 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Derman in view of Langner et al. and Chen et al.

Chen teaches desirability when displaying terrain data with a primary flight display of displaying the data in a top down 3-D view (figures 9-10, page 2, par. 25).

It would have been obvious to use a format for display as suggested by Chen in conjunction with a terrain display as suggested by Derman and Langner, in order to make terrain distinctions more easy to see, thus providing a pilot greater protection against ground collision.

3. Claims 9 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Derman in view of Langner et al. and Von Viebahn et al.

Von Viebahn teaches desirability in a primary flight display system of having display elements be transparent in order that superimposed information can be viewed through the transparent objects (col. 4, lines 27-33).

It would have been obvious to utilize translucent indicators as suggested by Von Viebahn in conjunction with attitude indicator as disclosed by Derman and Langner, in order to allow a pilot to observe data which was displayed with

attitude information, without the data being obscured by non-see-through elements.

4. Claims 12 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Derman in view of Langner et al. and Naimer et al.

Naimer discloses displaying additional information with a primary flight display including airport and runway data (Fig. 4 and 5).

It would have been obvious to include runway/airport data with an attitude display as disclosed by Derman and Langner, in order to allow a pilot to observe a landing area as far as position with respect to runway and obstacles was concerned, to provide safer landings and takeoffs.

5. Regarding applicant's remarks in the amendment filed 2-15-06, on page 6 it is stated that the attitude direction indicator is not referenced to a center of the compass rose, or that the compass rose is not overlaid over the terrain display. However, Derman and Langner both respectively show attitude direction indicators 15 and 176 centered inside compass roses 14 and 171.

On page 13 it is stated that there is no motivation to combine teachings of references. However, Derman clearly teaches the desire to completely surround an attitude direction indicator with a compass rose, and Langner clearly teaches desirability of overlaying attitude direction indicator 176 and compass rose 171 over terrain information. Choosing to overlay a complete compass rose as suggested by Derman over terrain information as disclosed by Langner would have been obvious to one of ordinary skill in the art in order that a pilot would have been able to focus attention on

more than one critical piece of navigation information at a time, thus providing greater safety by allowing a pilot to sense position with respect to obstacles without going off course.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brent A Swarthout whose telephone number is 571-272-2979. The examiner can normally be reached on M-F from 6:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Horabik, can be reached on 571-272-3068. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

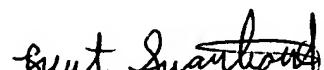
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Brent A Swarthout

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BRENT A. SWARTHOUT
PRIMARY EXAMINER